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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/082,348	02/26/2002	Pasi Laurila	P 290657 2990360US/SML/ko	9575
7590 PILLSBURY WINTHROP LLP 1650 TYSONS BOULEVARD McLEAN, VA 22102			EXAMINER IQBAL, KHAWAR	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/082,348

Applicant(s)

LAURILA ET AL.

Examiner

KHAWAR IQBAL

Art Unit

2617

Period for Reply -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 10-31-08.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-7, 9-23, 25 and 27-31 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-7, 9-23, 25 and 27-31 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/S508)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-7, 9-11, 13-22, 25, 27-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Leung (6501746) in view of Joong (6549776).

Regarding claim 1 Leung teaches a method of providing telecommunication services in a telecommunication system comprising at least one terminal (mobile node 6), a serving network (10) providing the terminal with services, and at least one bearer network (8) in functional connection with the serving network (10), the method comprising (abstract, fig. 1,8):

creating at least one database comprising subscriber data, from which there is a functional connection to the bearer network (col. 6 line 65-col. 7, line 20);

establishing a connection between the serving network (10) and the terminal (6) via the subscriber application comprised by the terminal (col. 7, lines 5-30, col. 14, lines 7-14);

arranging communication between the terminal and said subscriber database by Internet Protocol (IP) based data (col. 11, lines 15-20, fig. 1);

performing automated checking of the right of the terminal (6) to use said subscriber database (col. 11, lines 44-65);

automatically transmitting, from the subscriber database, subscriber data relating to said subscriber database to the terminal (6), the serving network (10), or the terminal (6) and the serving network in response to the terminal having the right to use said subscriber database and in response to acceptable authentication of the subscriber database in the bearer network (8) (col. 11, line 44-col. 12, line 12);

providing the terminal with communication services according to at least said transmitted subscriber data, wherein services of the bearer network are activated for use for the terminal by means of said transmitted subscriber data (col. 12, lines 1-32);
and

transmitting data from the terminal to said subscriber database to modify (updates mobility binding table) the subscriber database contents (col. 12, lines 1-12).
Leung does not specifically teach creating at least one database comprising subscriber data, from which there is a functional connection to the bearer network, said subscriber data being similar to the data stored in a subscriber application comprised by the terminal, the subscriber data including authentication information.

In an analogous art, Joong teaches creating at least one database comprising subscriber data, from which there is a functional connection to the bearer network, said subscriber data being similar to the data stored in a subscriber application comprised by the terminal, the subscriber data including authentication information (a wireless application protocol WAP gateway 140 receives digital data communication from server 110 in a certain format and converting the format to a WAP format; location information associated with wireless client is stored on a home location register 126 and WAP

gateway is connected to the home location register by a signal link 150 and queries the WAP gateway for the location information associated with the wireless client 105, col. 5, lines 14-50). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the device of Leung by specifically adding feature creating at least one database comprising subscriber data, from which there is a functional connection to the bearer network, said subscriber data being similar to the data stored in a subscriber application comprised by the terminal, the subscriber data including authentication information in order to enhance providing a server to a wireless client in a direct digital call environment as taught by Joong.

Regarding claim 13 Leung teaches a telecommunication system comprising (fig. 1-8):

at least one terminal (6);

a serving network (10) providing the terminal with services (col. 3 line 65-col. 4, line 10, col. 5, lines 10-37); at least one bearer network (8) in functional connection with the serving network (10) (col. 6 line 65-col. 7, line 30), wherein

the bearer network (8) is configured to create at least one database comprising subscriber data (col. 6 line 65-col. 7, line 40, col. 14, lines 7-14);

the terminal and the serving network are configured to establish a connection by means of the subscriber application comprised by the terminal (col. 6 line 65-col. 7, line 40, col. 14, lines 7-14);

the terminal and the serving network are configured to arrange Internet Protocol (IP) based data transmission communication between the terminal and said subscriber database (col. 6 line 65-col. 7, line 40, (col. 11, lines 15-20, col. 14, lines 7-14);

said subscriber database is configured to perform automated checking of the right of the terminal to use said subscriber database (col. 11, lines 44-65);

automatic submission of subscriber data is configured in the system, from the subscriber database to the terminal, the, serving network, or the terminal and the serving network in response to the terminal having the right to use said subscriber database and in response to acceptable authentication of the subscriber database in the bearer network (col. 11, line 44-col. 12, line 12);

communication service provision for the terminal is configured in the system in accordance with at least said transmitted subscriber data, wherein the system is configured to activate services of the bearer network for use for the terminal by means of said transmitted subscriber data (col. 12, lines1-32); and

the terminal is configured to transmit data to said subscriber database to modify the subscriber database contents (col. 12, lines1-12). Leung does not specifically teach creating at least one database comprising subscriber data, from which there is a functional connection to the bearer network, said subscriber data being similar to the data stored in a subscriber application comprised by the terminal, the subscriber data including authentication information.

In an analogous art, Joong teaches creating at least one database comprising subscriber data, from which there is a functional connection to the bearer network, said

subscriber data being similar to the data stored in a subscriber application comprised by the terminal, the subscriber data including authentication information (a wireless application protocol WAP gateway 140 receives digital data communication from server 110 in a certain format and converting the format to a WAP format; location information associated with wireless client is stored on a home location register 126 and WAP gateway is connected to the home location register by a signal link 150 and queries the WAP gateway for the location information associated with the wireless client 105, col. 5, lines 14-50). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the device of Leung by specifically adding feature creating at least one database comprising subscriber data, from which there is a functional connection to the bearer network, said subscriber data being similar to the data stored in a subscriber application comprised by the terminal, the subscriber data including authentication information in order to enhance providing a server to a wireless client in a direct digital call environment as taught by Joong.

Regarding claims 25 Leung teaches a terminal device for a telecommunication system comprising (fig. 8):

a subscriber application configured to establish a connection with a serving network (col. 7, lines 5-30, col. 14, lines 7-14),

wherein the terminal is configured to communication with the subscriber database by Internet protocol base data transmission Protocol (IP) based data transmission, the subscriber database in functional connection with a bearer network (col. 7, lines 5-30, col. 14, lines 7-14, col. 11, lines 4-65);

the terminal is configured to transmit identification information to said subscriber database (col. 7, lines 5-50, col. 14, lines 7-14, col. 11, lines 4-30);

the terminal is configured to receive subscriber data from the subscriber database as an automatic result of automated checking to confirm the right of the terminal to use said subscriber database and acceptable authentication of the subscriber database in the bearer network (col. 7, lines 5-30, col. 11, lines 4-65, col. 12, lines 1-40);

the terminal configured to receive communication services according to at least said received subscriber data, wherein services of the bearer network are activated for use for the terminal by means of said received subscriber data (col. 7, lines 5-30, col. 11, lines 4-65, col. 12, lines 1-40); and

the terminal is configured to transmit data to said subscriber database to modify the subscriber database contents (col. 7, lines 5-30, col. 11, lines 4-65, col. 12, lines 1-40). Leung does not specifically teach subscriber data being similar to the data stored in a subscriber application comprised by the terminal, the subscriber data including authentication information.

In an analogous art, Joong teaches creating at least one database comprising subscriber data, from which there is a functional connection to the bearer network, said subscriber data being similar to the data stored in a subscriber application comprised by the terminal, the subscriber data including authentication information (a wireless application protocol WAP gateway 140 receives digital data communication from server 110 in a certain format and converting the format to a WAP format; location information

associated with wireless client is stored on a home location register 126 and WAP gateway is connected to the home location register by a signal link 150 and queries the WAP gateway for the location information associated with the wireless client 105, col. 5, lines 14-50). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the device of Leung by specifically adding feature subscriber data being similar to the data stored in a subscriber application comprised by the terminal, the subscriber data including authentication information in order to enhance providing a server to a wireless client in a direct digital call environment as taught by Joong.

Regarding claims 2, 14 Leung teaches wherein said subscriber data to be transmitted comprise a subscriber identifier (col. 11, lines 10-30).

Regarding claims 3,15,27 Leung teaches wherein said subscriber data to be transmitted to the serving network comprise a subscriber identifier according to said subscriber database; said subscriber identifier is associated in the serving network with the identifier of the subscriber application comprised by the terminal; the terminal is identified outside the serving network on the basis of said subscriber identifier; and data to the subscriber of said subscriber database are directed in the serving network to the terminal (col. 11, lines 10-55).

Regarding claims 4, 16, 28 Leung teaches wherein the address of said subscriber database, such as an IP address, is transmitted from the terminal to the serving network; and a connection is established from the terminal to said subscriber database on the basis of the address of said subscriber database (col. 11, lines 16-30).

Regarding claims 5, 17, 29 Leung teaches transmitting location information about the terminal to at least one bearer network; and transmitting data directed to the subscriber of said subscriber database to the serving network on the basis of said location information (col. 11, lines 10-30, col. 12, lines 1-30).

Regarding claims 6, 19, 30 Leung teaches wherein said subscriber data comprise information about the services to be provided for the subscriber (col. 12, lines 1-30).

Regarding claims 7, 18 Leung teaches wherein said subscriber data comprise the subscriber's personal data (col. 11, lines 10-30).

Regarding claims 9, 20 Leung teaches wherein the information about said subscriber database to be used is transmitted from the terminal to the serving network (col. 11, lines 10-30, col. 12, lines 1-30).

Regarding claims 10, 21 Leung teaches arranging the subscriber data in said subscriber database to be modified by the terminal and/or the bearer network (col. 11, lines 10-30, col. 12, lines 1-30).

Regarding claims 11, 22 Leung teaches wherein said telecommunication system is a mobile communication system; and said subscriber database comprises data that are at least partly the same as in the subscriber application (col. 11, lines 10-30, col. 12, lines 1-30).

Regarding claim 31 Leung teach a network element device for a telecommunication system comprising (fig. 8):

a subscriber database comprising subscriber data, the subscriber database in a functional connection with a bearer network, the subscriber data being similar to the data stored in a subscriber application comprised by a terminal, the subscriber data including authentication information (col. 11, lines 10-55, col. 12, lines 1-30, see claim 1), wherein

the network element device is configured to communicate with a terminal by Interact Protocol (IP) based data transmission (col. 11, lines 10-30, col. 12, lines 1-30);

the network element device is configured to check the right of the terminal to use the subscriber database (col. 11, lines 10-45, col. 12, lines 1-30);

the network element device is configured to transmit subscriber data transmitted from the subscriber database to the terminal, a serving network, or the terminal and the serving network, in response to the terminal having the right to use said subscriber database (col. 11, lines 10-60, col. 12, lines 1-30, see claim1); and

the network element device is configured to receive data transmitted from the terminal for transmission to said subscriber database to modify the subscriber database contents (col. 12, lines 1-30). Leung does not specifically teach creating at least one database comprising subscriber data, from which there is a functional connection to the bearer network, said subscriber data being similar to the data stored in a subscriber application comprised by the terminal, the subscriber data including authentication information.

In an analogous art, Joong teaches creating at least one database comprising subscriber data, from which there is a functional connection to the bearer network, said

subscriber data being similar to the data stored in a subscriber application comprised by the terminal, the subscriber data including authentication information (a wireless application protocol WAP gateway 140 receives digital data communication from server 110 in a certain format and converting the format to a WAP format; location information associated with wireless client is stored on a home location register 126 and WAP gateway is connected to the home location register by a signal link 150 and queries the WAP gateway for the location information associated with the wireless client 105, col. 5, lines 14-50). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the device of Leung by specifically adding feature creating at least one database comprising subscriber data, from which there is a functional connection to the bearer network, said subscriber data being similar to the data stored in a subscriber application comprised by the terminal, the subscriber data including authentication information in order to enhance providing a server to a wireless client in a direct digital call environment as taught by Joong.

Response to Arguments

3. Applicant's arguments with respect to claims 1-7, 9-23, 25, 27-31 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KHAWAR IQBAL whose telephone number is (571)272-7909. The examiner can normally be reached on 9 am to 6.30 pm Monday to Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, GEORGE ENG can be reached on 571-272-7495. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/George Eng/
Supervisory Patent Examiner, Art Unit 2617

/K. I./
Examiner, Art Unit 2617